1 VQE results Aer Estimator (No Shots)

(Full Hamiltonian) Anharmonic Oscillator $\Lambda = 8$ COYBLA Max 10K Iterations

Ansatz	Tolerance	Converged runs	Mean iter	VQE min E.	Δ_{min}	VQE median E.	Δ_{median}	Exact	Time
RA r1 rl	1e−01	100/100	53	5.4558e−01	5.1357e−01	3.528e+00	3.4959e+00	3.2010110009e−02	00h 00m 23s
RA r1 rl	1e−02	100/100	264	4.2681e−02	1.067e−02	5.3619e−01	5.0418e−01	-	00h 01m 44s
RA r1 rl	1e−03	100/100	1358	3.2086e−02	7.5632e−05	3.674e−02	4.7303e−03	-	00h 06m 46s
RA r1 rl	1e−04	96/100	2301	3.2013e−02	3.3668e−06	3.2074e−02	6.3721e−05	-	00h 11m 40s
RA r1 rl	1e−05	69/100	2912	3.201e−02	1.5796e−08	3.201e−02	2.8581e−07	-	00h 21m 31s
RA r1 rl	1e−06	63/100	3981	3.201e−02	3.7302e−10	3.201e−02	4.6905e−09	-	00h 23m 58s
RA r1 rl	1e−07	54/100	4045	3.201e−02	2.0881e−12	3.201e−02	4.7654e−11	-	00h 26m 04s
RA r1 rl	1e−08	51/100	3898	3.201e−02	2.2385e−12	3.201e−02	6.2865e−12	-	00h 26m 20s
Ansatz	Tolerance	Converged runs	Mean iter	VQE min E.	Δ_{min}	VQE median E.	Δ_{median}	Exact	Time

Table 1